QC ABSTRACT

NAME OF WORK: Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	9 set /250-300 cum	266.26	18	18

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-31-71 **Date: 30/11/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.98 X 151.62 X 149.21	23044	8.255	418.8	18.2	18.2
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.55 X 151.61 X 150.86	22977	8.402	415.8	18.1	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.75 X 149.19 X 150.14	22640	8.429	414.8	18.3	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-08-31-71 **Date: 21/12/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.66 X 150.11 X 149.83	22465	8.900	538.0	23.9	23.3
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.83 X 149.84 X 151.88	22749	8.995	510.3	22.4	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.91 X 149.83 X 151.64	22461	8.873	528.0	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-31-71 **Date: 03/12/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	149.48 X 150.12 X 150.46	22439	8.255	423.1	18.9	18.7
2	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	149.48 X 149.86 X 151.55	22402	8.402	406.8	18.2	
3	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	151.79 X 151.81 X 150.56	23042	8.429	436.5	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2019

ID	:	CP-2020-08-31-71
roject Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	28-11-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	26/11/2019	24/12/2019	149.59 X 151.65 X 151.60	22685	8.900	542.5	23.9	23.2
2	Culvert Bottom Slab Concrete	M20	26/11/2019	24/12/2019	150.52 X 149.48 X 150.06	22500	8.995	497.6	22.1	
3	Culvert Bottom Slab Concrete	M20	26/11/2019	24/12/2019	151.33 X 149.64 X 149.59	22644	8.873	535.5	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/12/2019

Lab ID	:	**CP-2020-08-31-71**
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	01-12-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	150.50 X 150.88 X 149.81	22708	8.255	420.9	18.5	18.5
2	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	151.04 X 149.31 X 149.63	22551	8.402	426.0	18.9	
3	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	150.08 X 149.58 X 151.64	22449	8.429	407.1	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-31-71** **Date: 06/12/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 01-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	149.23 X 150.65 X 151.11	22482	8.255	410.2	18.2	18.1
2	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	151.02 X 149.23 X 150.96	22536	8.402	407.4	18.1	
3	Culvert Side Wall Concrete	M20	29/11/2019	06/12/2019	150.83 X 151.68 X 151.77	22878	8.429	414.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2019

Lab ID	:	CP-2020-08-31-71
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	22-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	150.46 X 151.69 X 150.92	22823	8.255	423.7	18.6	18.4
2	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	149.23 X 151.49 X 150.59	22607	8.402	414.2	18.3	
3	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	149.19 X 151.43 X 149.27	22591	8.429	414.5	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-31-71 **Date: 27/11/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.45 X 150.84 X 149.57	22845	8.255	426.5	18.7	18.7
2	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.02 X 149.83 X 149.29	22627	8.402	420.0	18.6	
3	Drain Bottom Slab Concrete	M20	20/11/2019	27/11/2019	151.50 X 151.08 X 150.32	22890	8.429	429.9	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-31-71** **Date: 30/11/2019**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.85 X 151.16 X 151.30	22953	8.255	417.9	18.2	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.75 X 150.07 X 151.02	22473	8.402	415.1	18.5	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.40 X 149.99 X 150.41	22709	8.429	424.1	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

e ID	:	CP-2020-08-31-71 **Date: 21/12/2019**
roject Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	25-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.34 X 151.05 X 151.27	22710	8.900	543.7	23.9	23.4
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.90 X 149.15 X 151.05	22357	8.995	504.9	22.6	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.19 X 150.73 X 150.44	22638	8.873	532.9	23.5	

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TEST RESULTS OF STEEL

Date: 12-11-19

Lab ID	:	CP-2020-08-31-71
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	11-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-12-19

Lab ID	:	CP-2020-08-31-71
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	02-12-19
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-08-31-71 **Date: 13-11-19**

Project Name : Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/198/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-31-71** **Date: 15-11-19**
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-31-71** **Date: 13-11-19**
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-31-71** **Date: 13-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 15-11-19

Lab ID	:	CP-2020-08-31-71
Project Name	:	Asphalting to Bestcounty-II and Surrounding Areas in Ward No-03 Yelahanka Satellite Town Sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/198/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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